

Data Path : Z:\SVOASRV\HPCHEM1\BNA_E\DATA\BE052219\
 Data File : BE099724.D
 Acq On : 22 May 2019 17:33
 Operator : JU/SJ
 Sample : K2966-03
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 FESB-15(1.2-1.7)

Quant Time: May 23 07:59:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_E\METHODS\8270-SIM-BE052019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 20 19:29:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	1455	0.40	ng	-0.01
7) Naphthalene-d8	10.61	136	5052	0.40	ng	0.00
13) Acenaphthene-d10	14.48	164	3769	0.40	ng	0.00
19) Phenanthrene-d10	17.23	188	10707	0.40	ng	0.00
27) Chrysene-d12	21.41	240	15732	0.40	ng	0.00
34) Perylene-d12	23.95	264	19161	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.37	112	1490	0.41	ng	0.00
5) Phenol-d6	6.98	99	2112	0.43	ng	0.00
8) Nitrobenzene-d5	8.98	82	1752	0.40	ng	0.00
11) 2-Methylnaphthalene-d10	12.22	152	3109	0.36	ng	0.00
14) 2,4,6-Tribromophenol	15.97	330	910	0.45	ng	-0.01
15) 2-Fluorobiphenyl	13.10	172	4575	0.32	ng	0.00
25) Fluoranthene-d10	19.27	212	43192	0.30	ng	0.00
29) Terphenyl-d14	19.86	244	8790	0.31	ng	-0.01

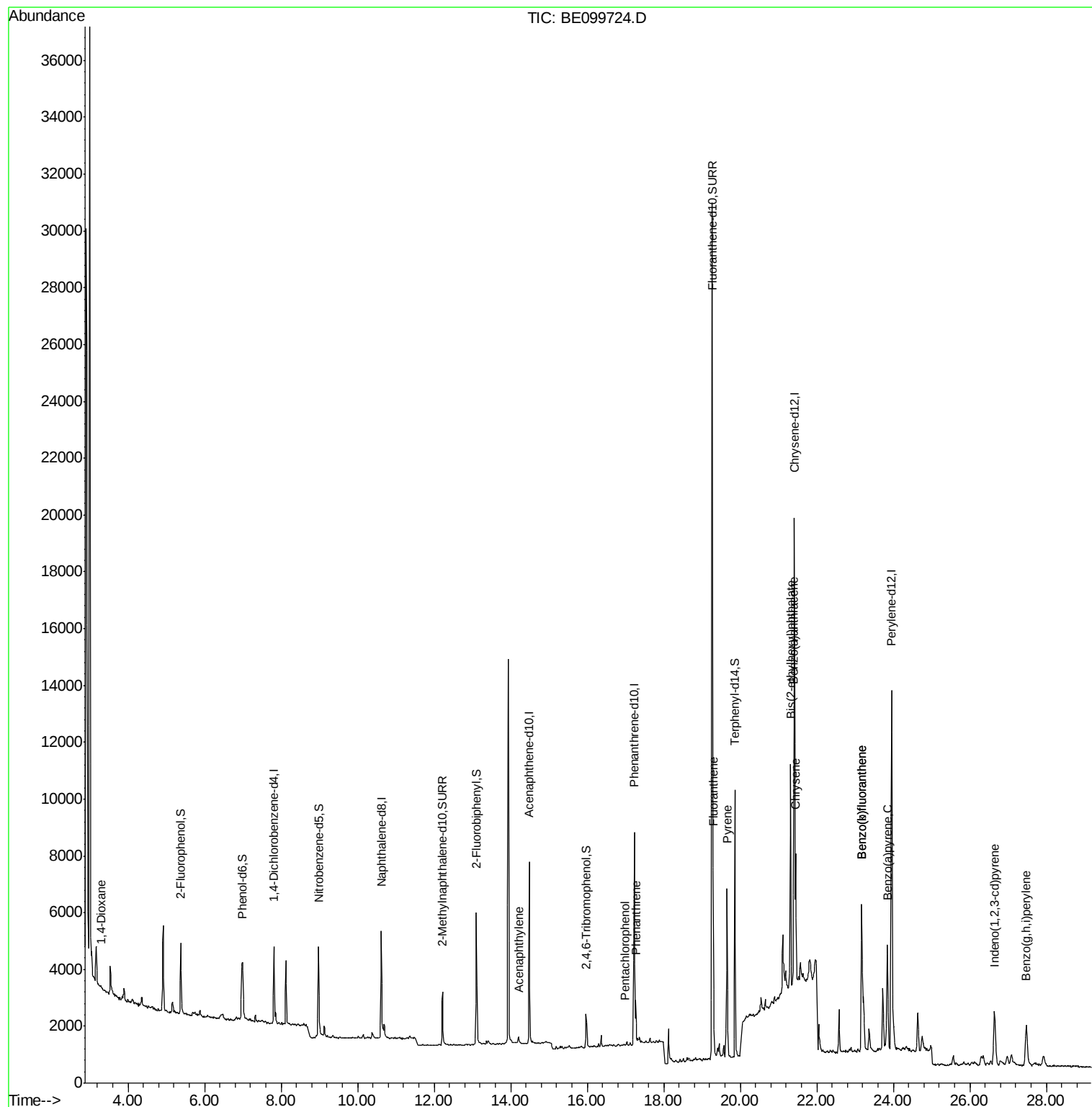
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.30	88	53	0.025	ng	# 34
16) Acenaphthylene	14.21	152	482	0.027	ng	# 92
22) Pentachlorophenol	16.99	266	18	0.190	ng	# 81
23) Phenanthrene	17.27	178	1565	0.060	ng	98
26) Fluoranthene	19.29	202	5823	0.141	ng	# 98
28) Pyrene	19.66	202	5788	0.146	ng	# 96
30) Benzo(a)anthracene	21.40	228	3693	0.083	ng	# 81
31) Chrysene	21.45	228	4082	0.085	ng	# 94
32) Bis(2-ethylhexyl)phthalate	21.32	149	10141	0.197	ng	99
33) Indeno(1,2,3-cd)pyrene	26.64	276	3871	0.067	ng	97
35) Benzo(b)fluoranthene	23.17	252	7224	0.138	ng	# 49
36) Benzo(k)fluoranthene	23.17	252	7224	0.132	ng	# 48
37) Benzo(a)pyrene	23.84	252	4804	0.095	ng	# 56
39) Benzo(g,h,i)perylene	27.47	276	3834	0.072	ng	# 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

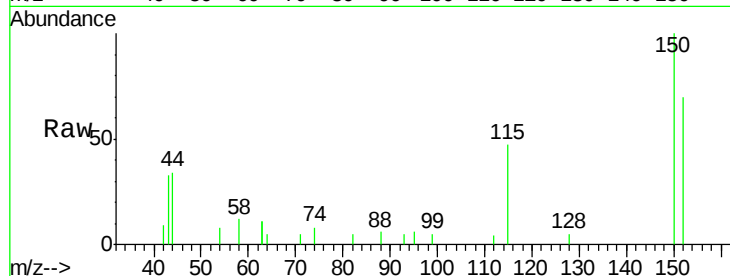
Tgt Ion:152 Resp: 1455

Ion Ratio Lower Upper

152 100

150 143.2 109.2 163.8

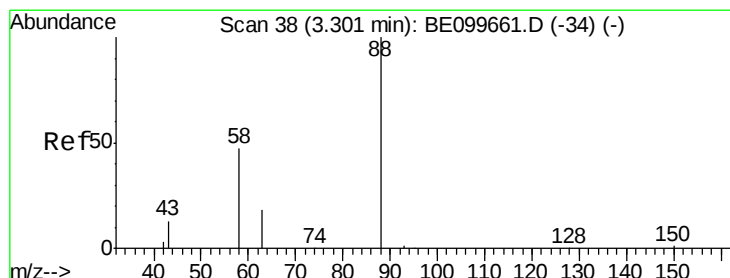
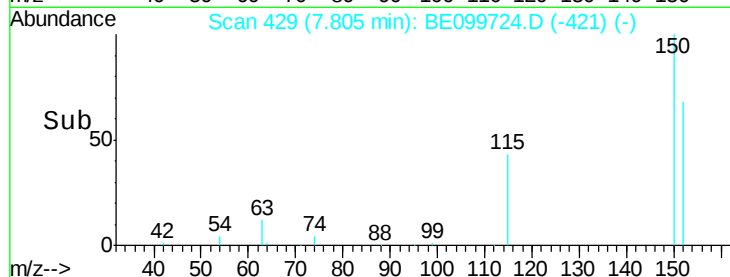
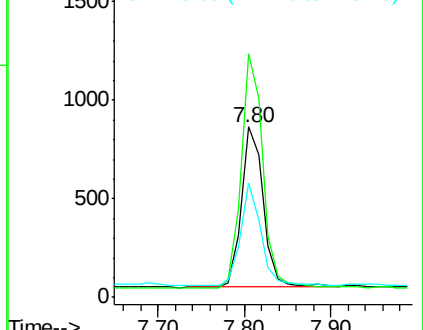
115 67.0 43.7 65.5#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.025 ng

RT: 3.30 min Scan# 38

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

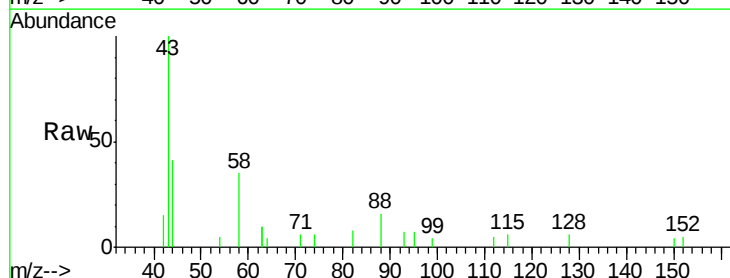
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

58 0.0 41.8 62.8#

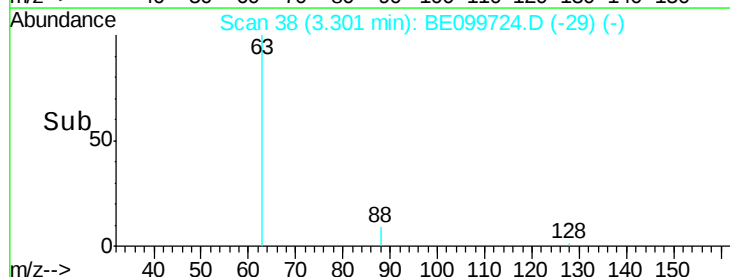
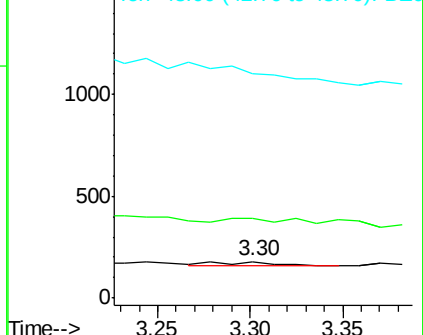
43 0.0 15.0 22.4#

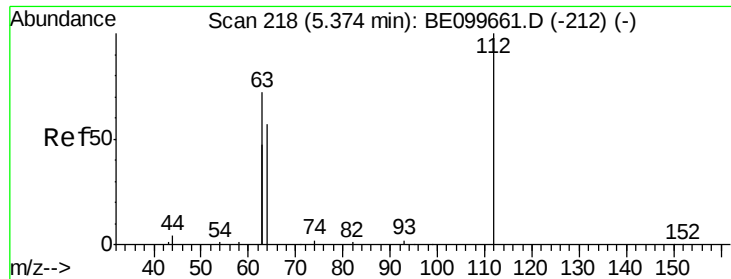


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.405 ng

RT: 5.37 min Scan# 218

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

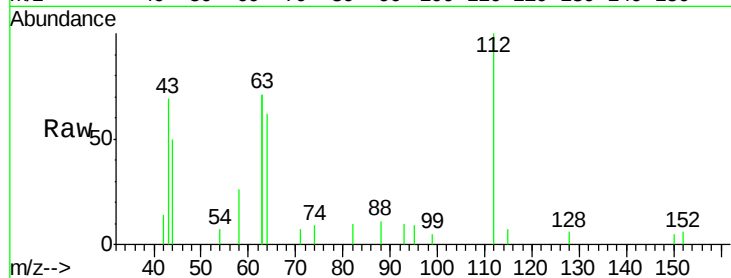
Tgt Ion:112 Resp: 1490

Ion Ratio Lower Upper

112 100

64 55.2 43.4 65.2

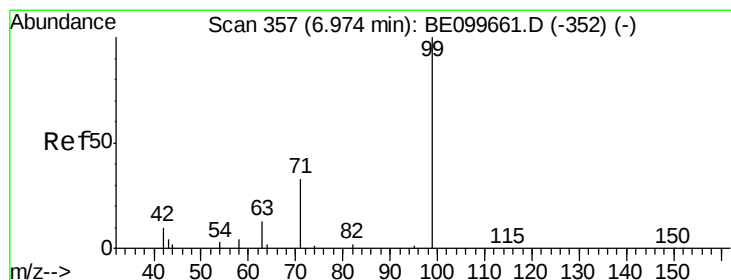
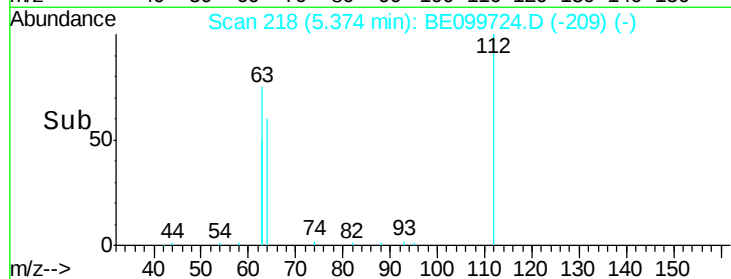
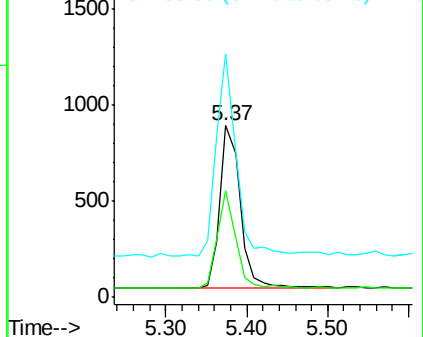
63 117.1 96.9 145.3



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.434 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

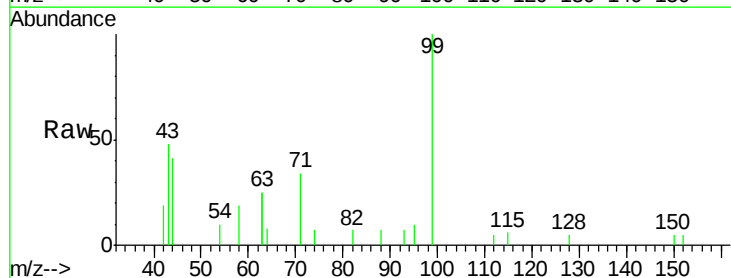
Tgt Ion: 99 Resp: 2112

Ion Ratio Lower Upper

99 100

42 21.8 12.2 18.2#

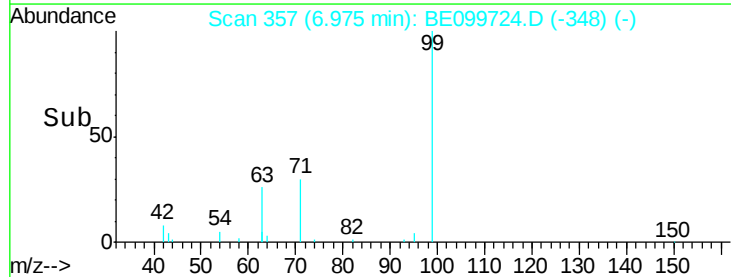
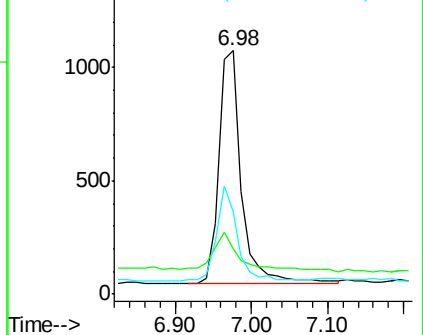
71 36.8 28.9 43.3

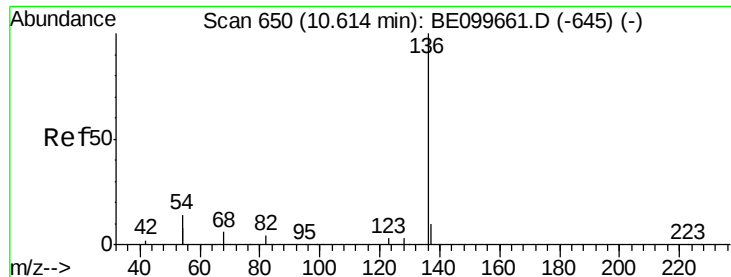


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.61 min Scan# 650

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

Tgt Ion:136 Resp: 5052

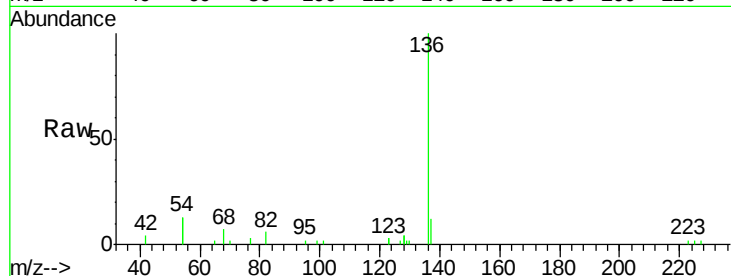
Ion Ratio Lower Upper

136 100

137 12.1 9.0 13.6

54 25.1 22.3 33.5

68 6.6 6.0 9.0

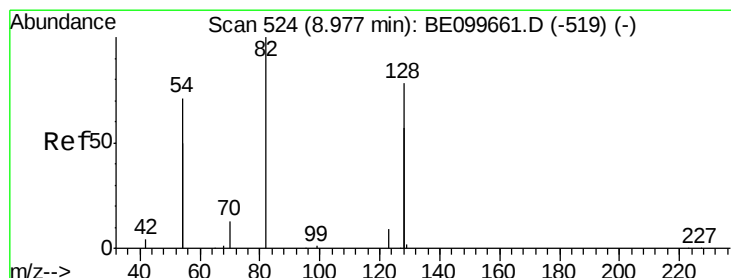
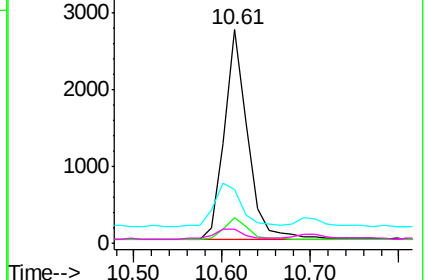
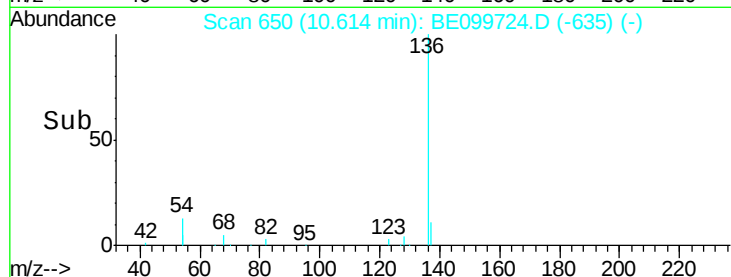


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.401 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

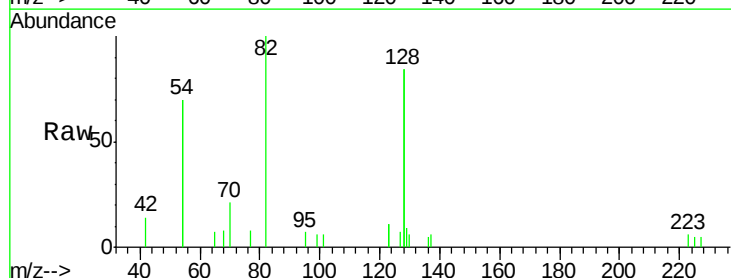
Tgt Ion: 82 Resp: 1752

Ion Ratio Lower Upper

82 100

128 168.6 117.7 176.5

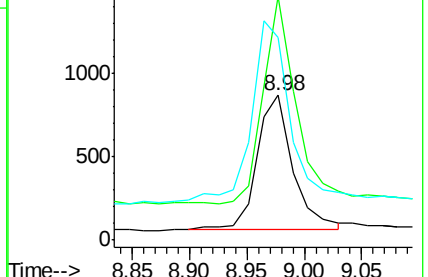
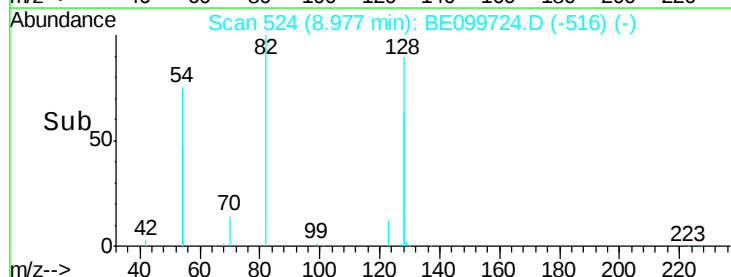
54 140.1 106.6 160.0

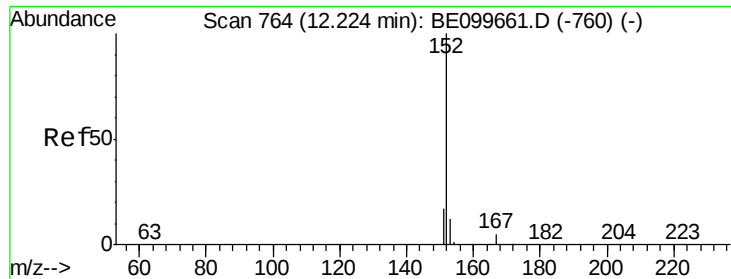


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

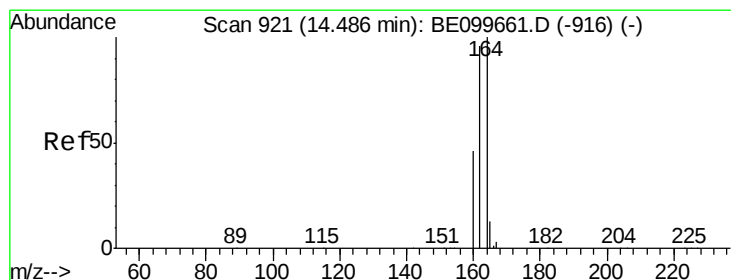
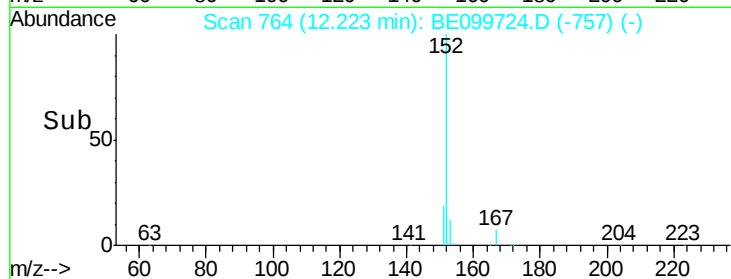
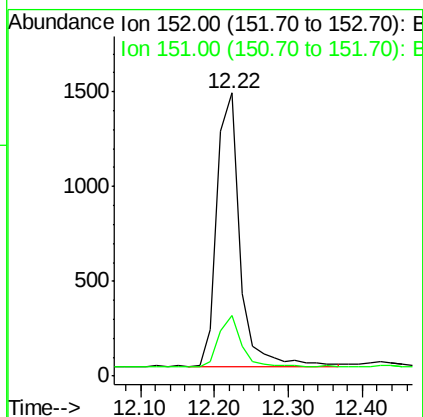
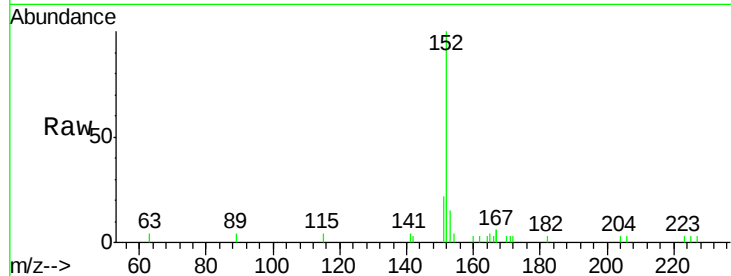




#11
 2-Methylnaphthalene-d10
 Concen: 0.357 ng
 RT: 12.22 min Scan# 764
 Delta R.T. -0.00 min
 Lab File: BE099724.D
 Acq: 22 May 2019 17:33

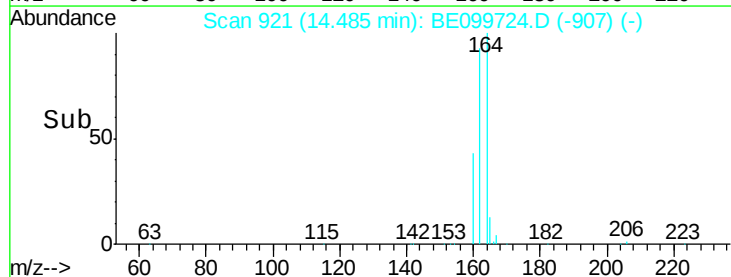
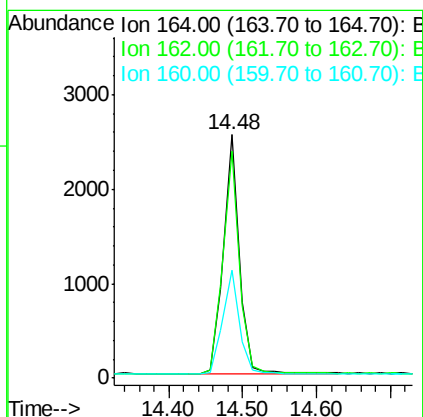
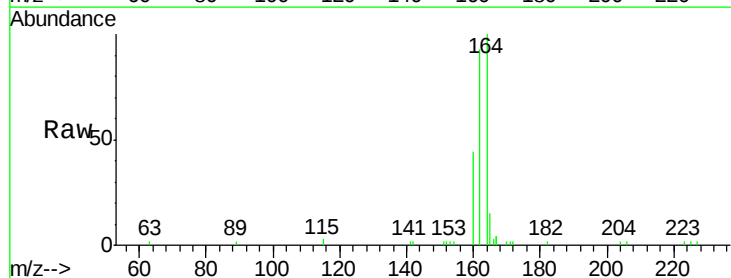
Instrument :
 BNA_E
 ClientSampleId :
 FESB-15(1.2-1.7)

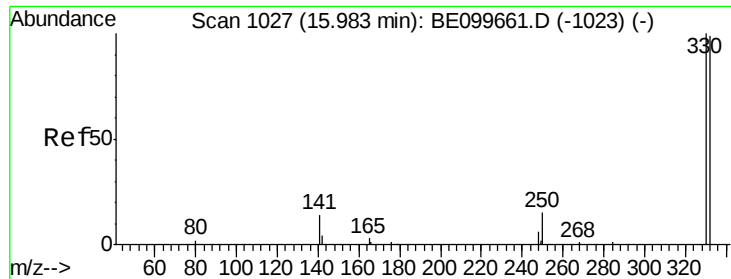
Tgt Ion:152 Resp: 3109
 Ion Ratio Lower Upper
 152 100
 151 18.9 15.0 22.4



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.48 min Scan# 921
 Delta R.T. -0.00 min
 Lab File: BE099724.D
 Acq: 22 May 2019 17:33

Tgt Ion:164 Resp: 3769
 Ion Ratio Lower Upper
 164 100
 162 93.4 76.5 114.7
 160 44.3 37.4 56.2

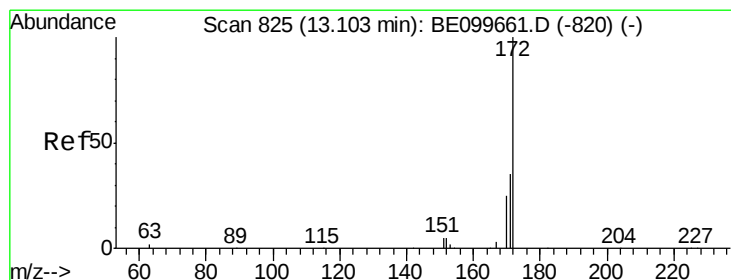
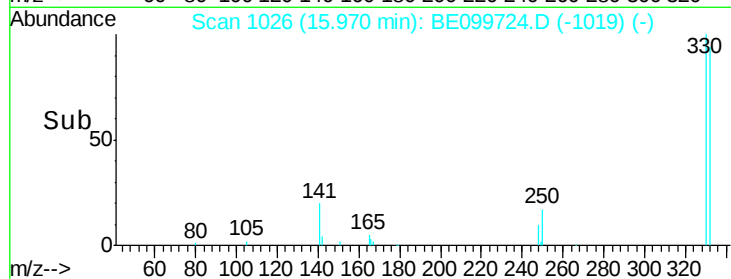
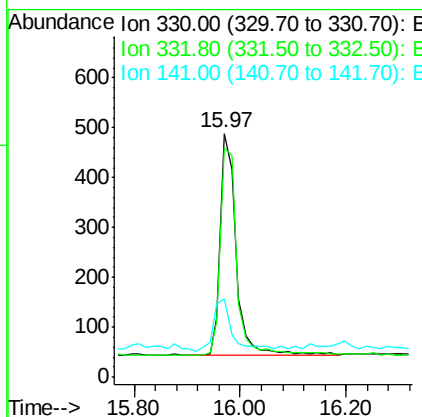
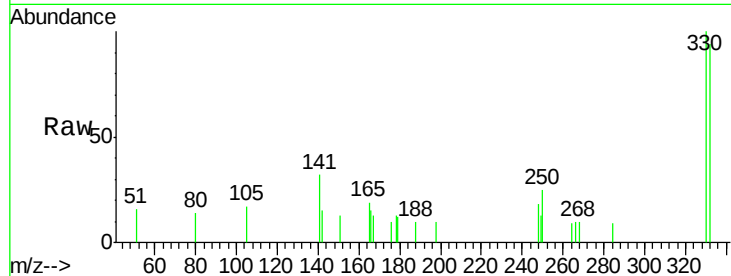




#14
 2,4,6-Tribromophenol
 Concen: 0.446 ng
 RT: 15.97 min Scan# 1026
 Delta R.T. -0.01 min
 Lab File: BE099724.D
 Acq: 22 May 2019 17:33

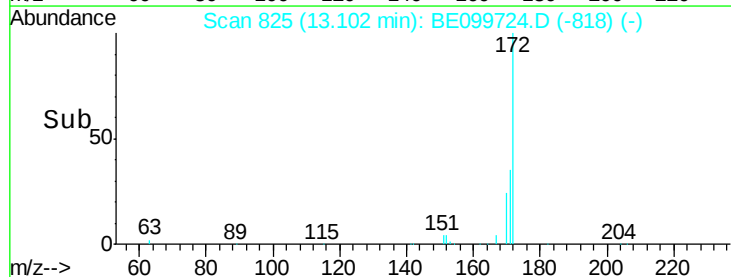
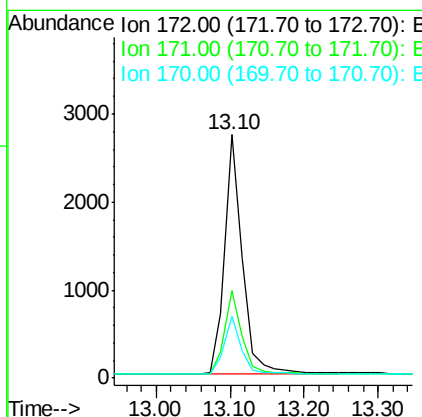
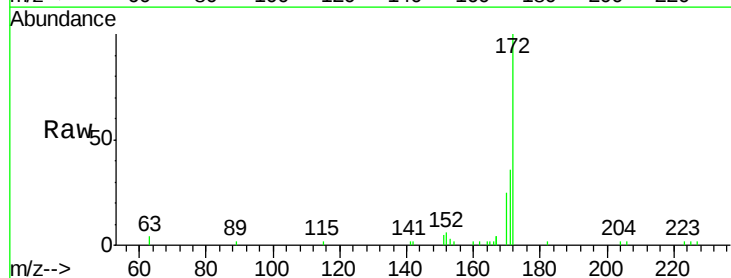
Instrument :
 BNA_E
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 FESB-15(1.2-1.7)

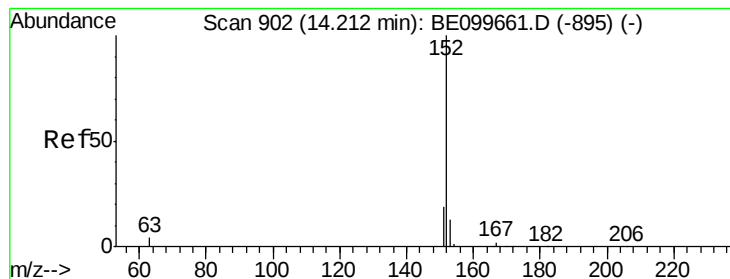
Tgt Ion: 330 Resp: 910
 Ion Ratio Lower Upper
 330 100
 332 97.8 77.3 115.9
 141 28.5 18.9 28.3#



#15
 2-Fluorobiphenyl
 Concen: 0.320 ng
 RT: 13.10 min Scan# 825
 Delta R.T. -0.00 min
 Lab File: BE099724.D
 Acq: 22 May 2019 17:33

Tgt Ion: 172 Resp: 4575
 Ion Ratio Lower Upper
 172 100
 171 35.8 28.7 43.1
 170 25.3 20.9 31.3





#16

Acenaphthylene

Concen: 0.027 ng

RT: 14.21 min Scan# 902

Delta R.T. -0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

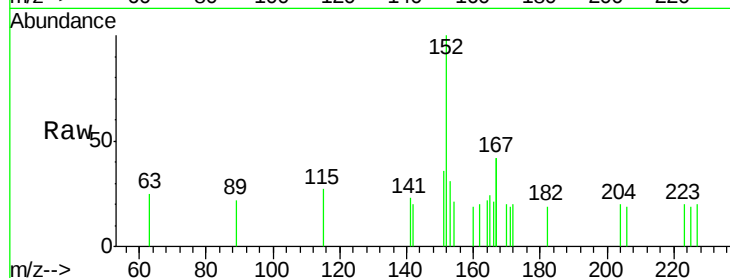
Tgt Ion:152 Resp: 482

Ion Ratio Lower Upper

152 100

151 25.7 15.9 23.9#

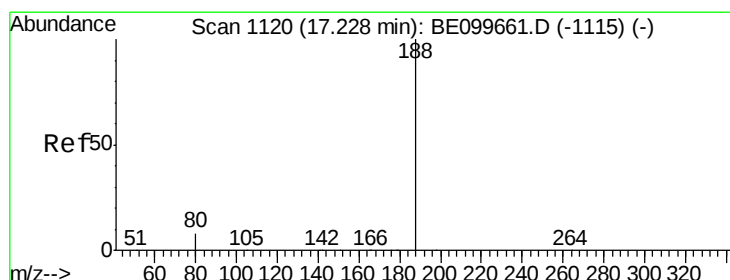
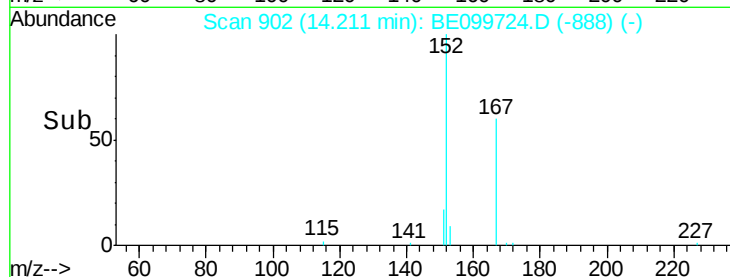
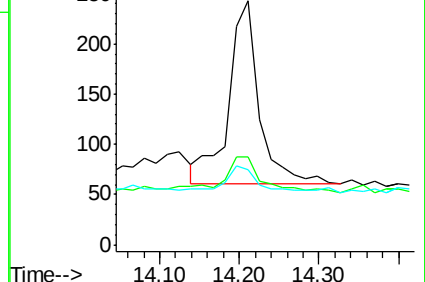
153 13.3 10.6 16.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

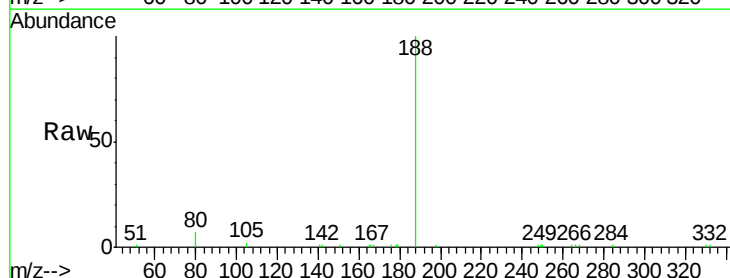
Tgt Ion:188 Resp: 10707

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

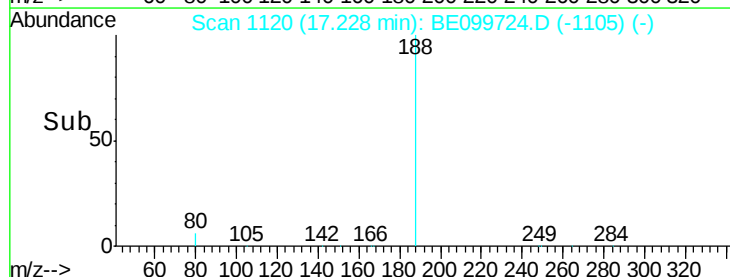
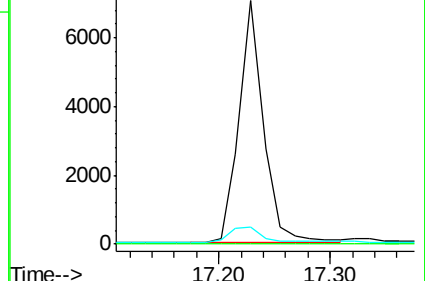
80 6.8 6.7 10.1

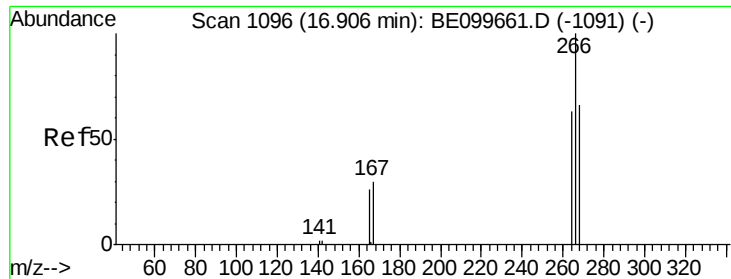


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.190 ng

RT: 16.99 min Scan# 1102

Delta R.T. 0.08 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

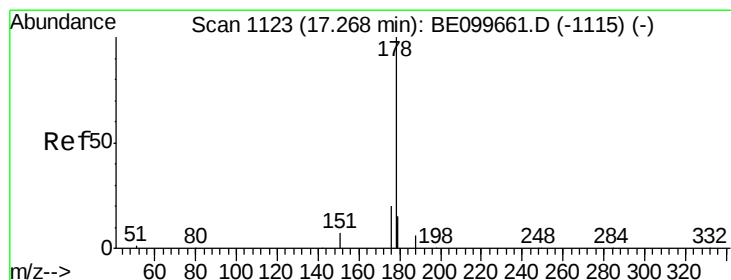
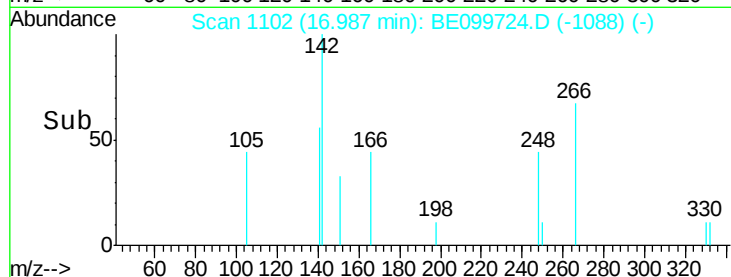
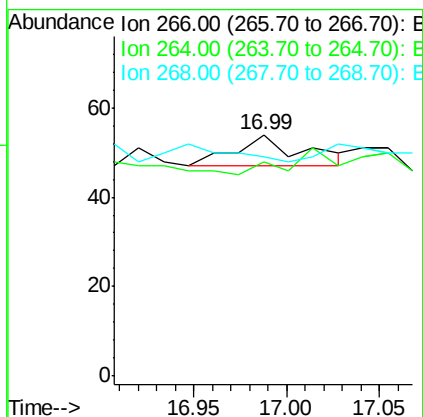
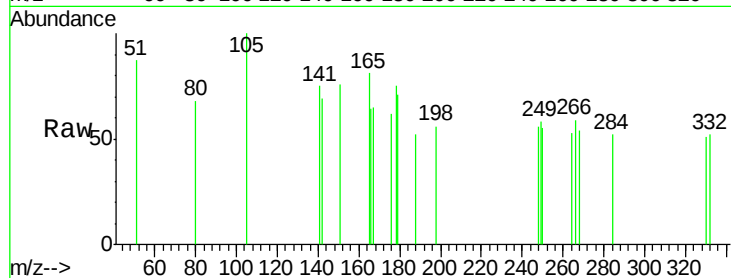
Tgt Ion:266 Resp: 18

Ion Ratio Lower Upper

266 100

264 88.9 57.2 85.8#

268 90.7 60.5 90.7#



#23

Phenanthrene

Concen: 0.060 ng

RT: 17.27 min Scan# 1123

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

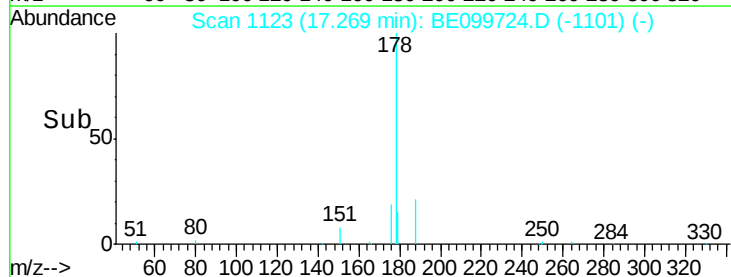
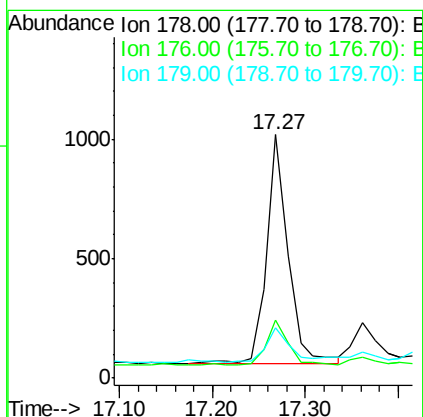
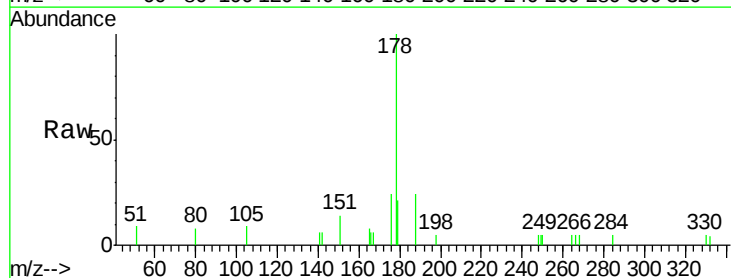
Tgt Ion:178 Resp: 1565

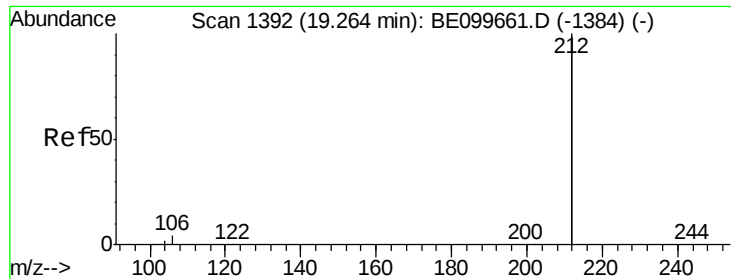
Ion Ratio Lower Upper

178 100

176 20.7 15.6 23.4

179 15.7 12.2 18.4





#25

Fluoranthene-d10

Concen: 0.295 ng

RT: 19.27 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

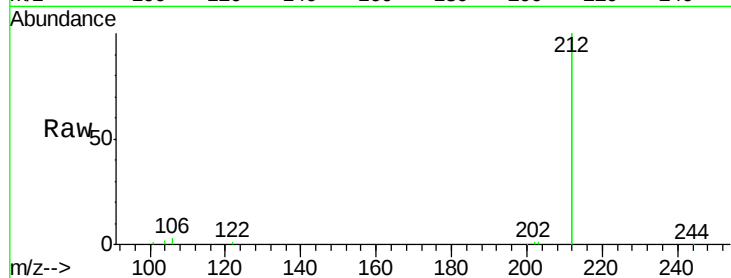
Tgt Ion:212 Resp: 43192

Ion Ratio Lower Upper

212 100

106 1.7 1.4 2.2

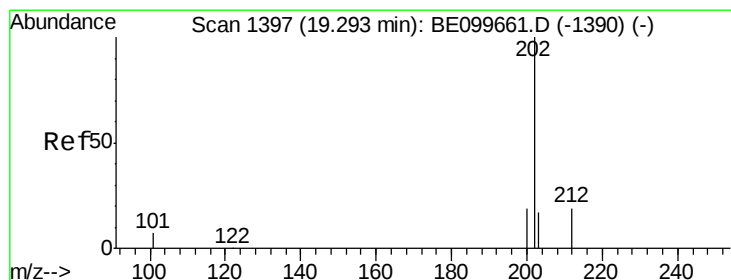
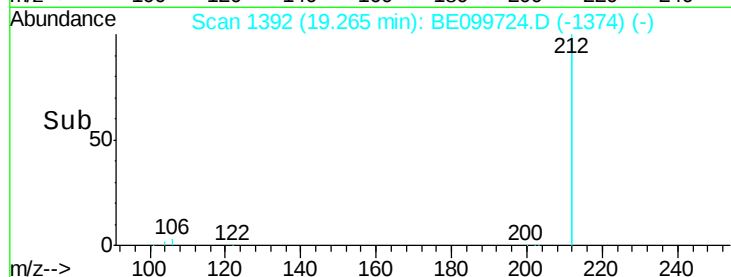
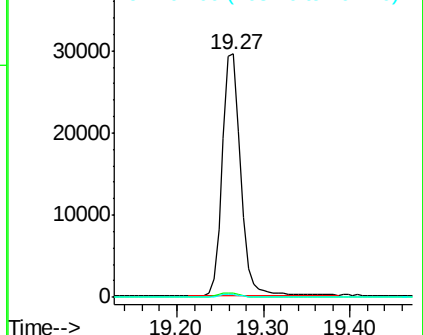
104 1.1 0.8 1.2



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.141 ng

RT: 19.29 min Scan# 1397

Delta R.T. 0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

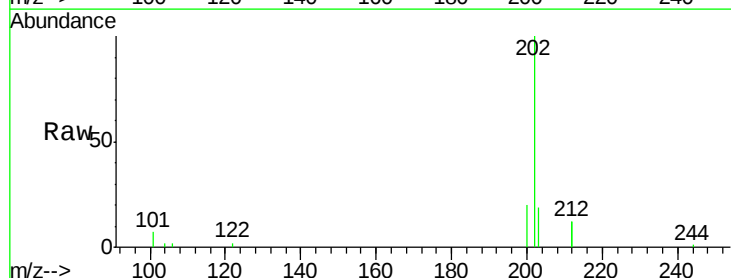
Tgt Ion:202 Resp: 5823

Ion Ratio Lower Upper

202 100

101 8.1 5.2 7.8#

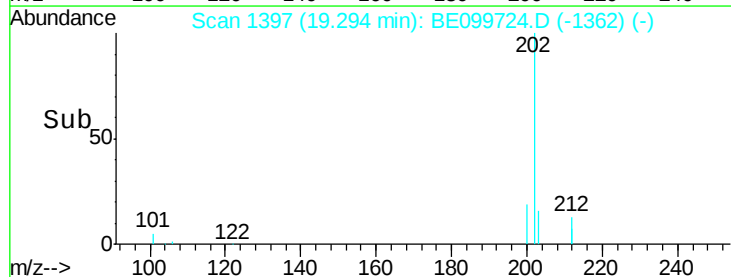
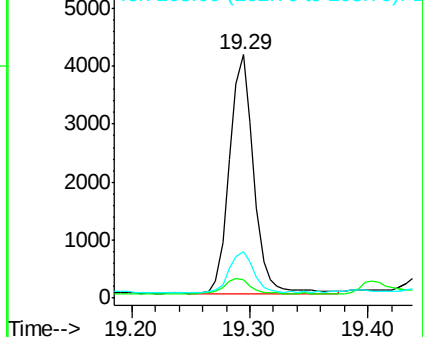
203 17.5 13.8 20.6

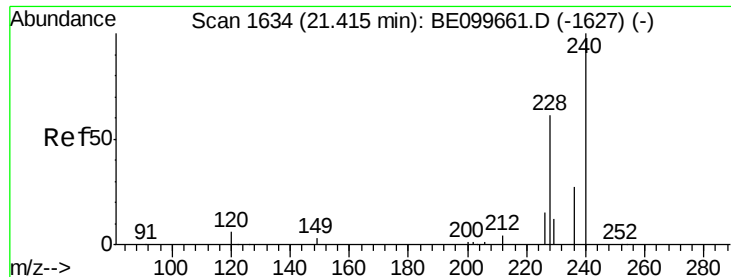


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.41 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

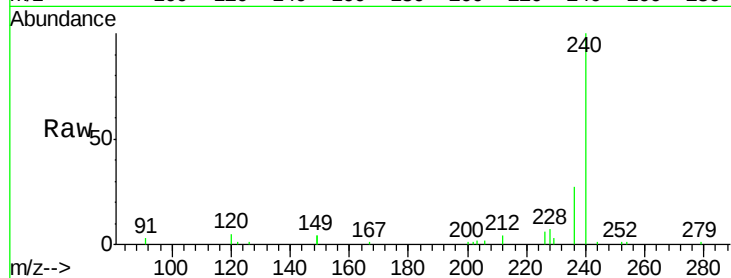
Tgt Ion:240 Resp: 15732

Ion Ratio Lower Upper

240 100

120 4.9 5.4 8.0#

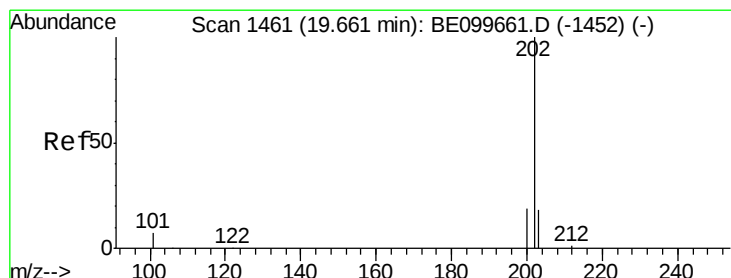
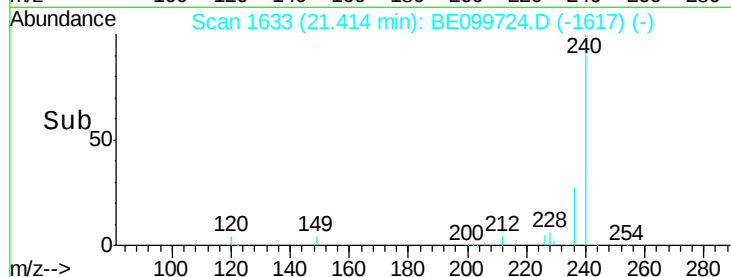
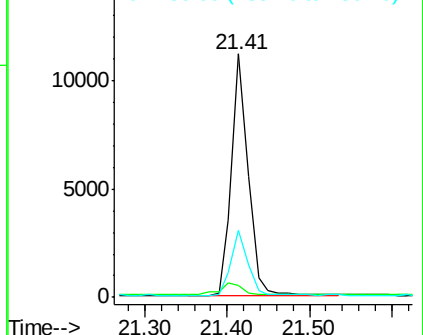
236 27.3 21.7 32.5



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.146 ng

RT: 19.66 min Scan# 1460

Delta R.T. -0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

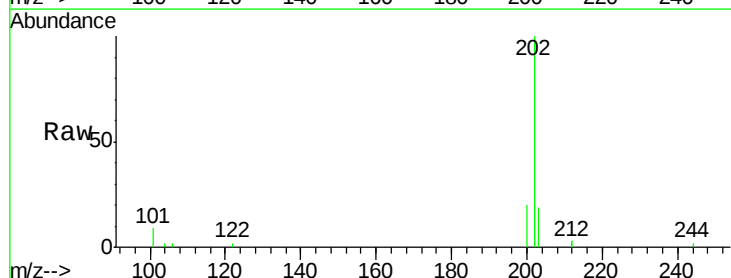
Tgt Ion:202 Resp: 5788

Ion Ratio Lower Upper

202 100

200 19.8 15.4 23.2

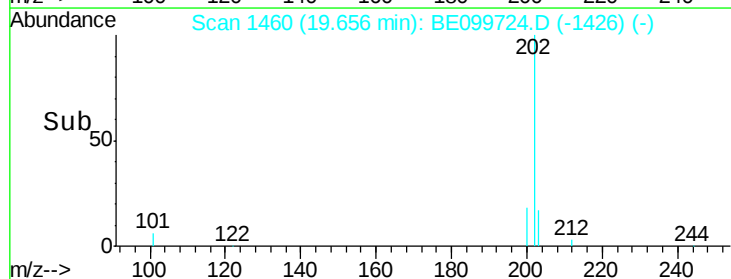
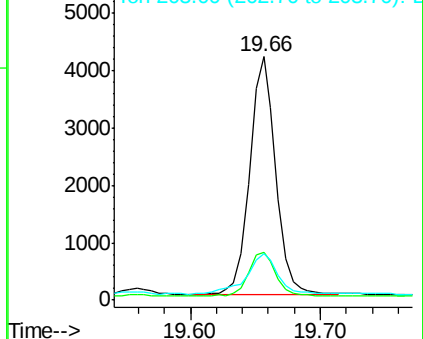
203 20.8 13.8 20.8#

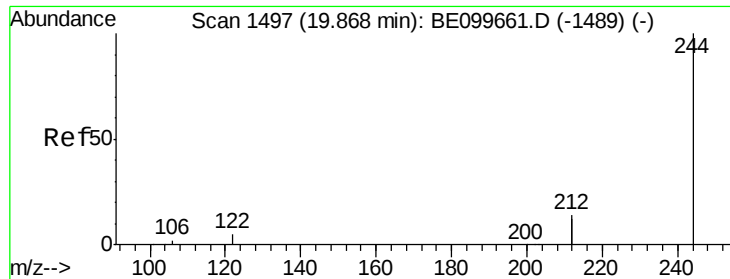


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.313 ng

RT: 19.86 min Scan# 1495

Delta R.T. -0.01 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

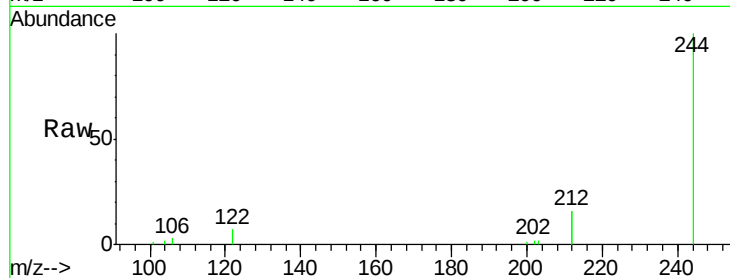
Tgt Ion:244 Resp: 8790

Ion Ratio Lower Upper

244 100

212 31.0 22.5 33.7

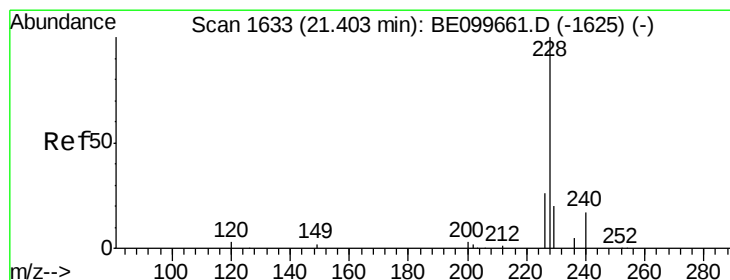
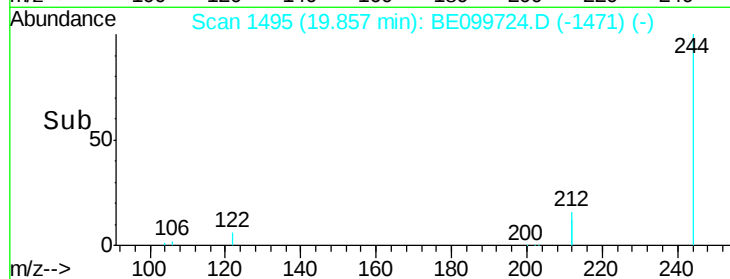
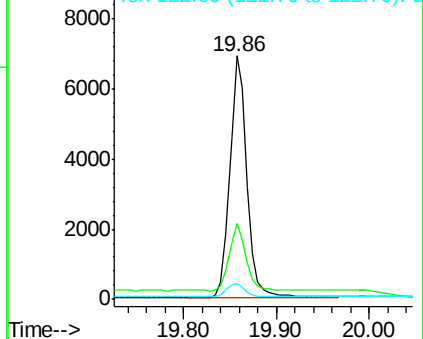
122 6.7 4.3 6.5#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.083 ng

RT: 21.40 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

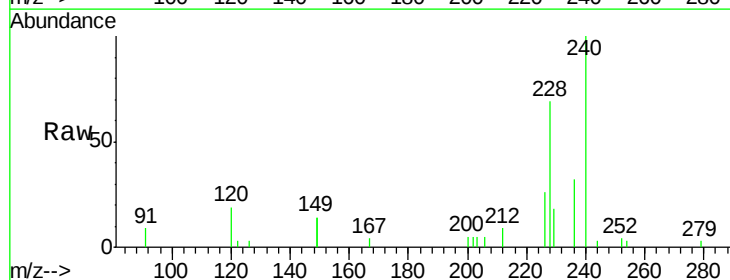
Tgt Ion:228 Resp: 3693

Ion Ratio Lower Upper

228 100

226 38.4 21.3 31.9#

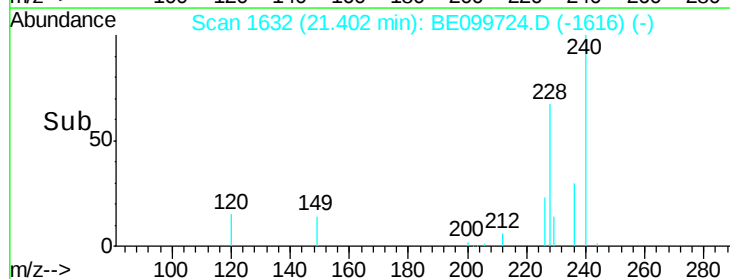
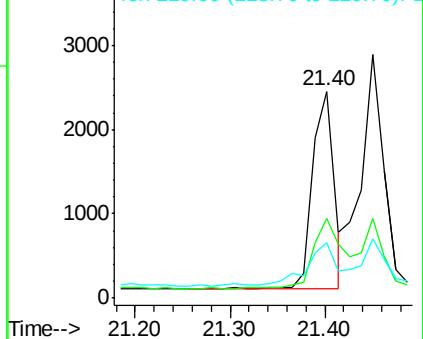
229 26.7 16.1 24.1#

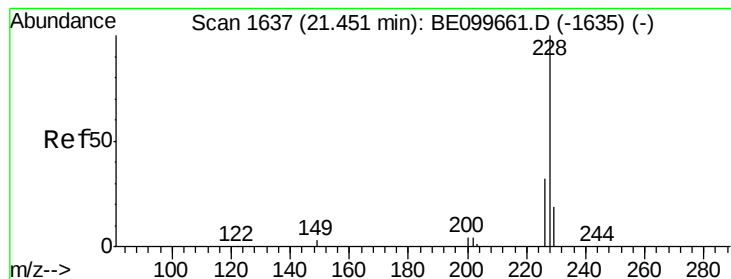


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.085 ng

RT: 21.45 min Scan# 1636

Delta R.T. -0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

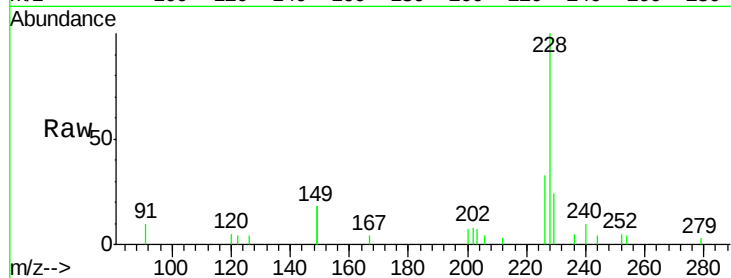
Tgt Ion:228 Resp: 4082

Ion Ratio Lower Upper

228 100

226 32.7 24.7 37.1

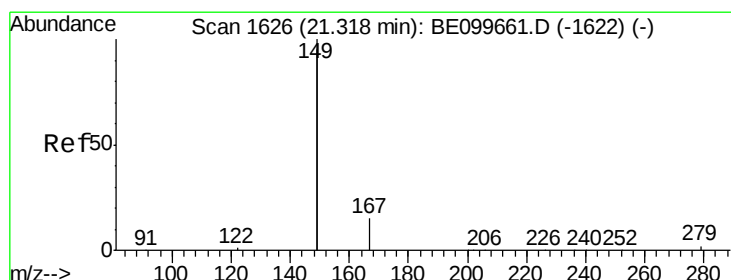
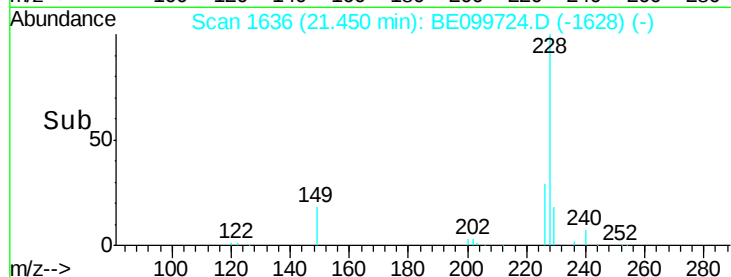
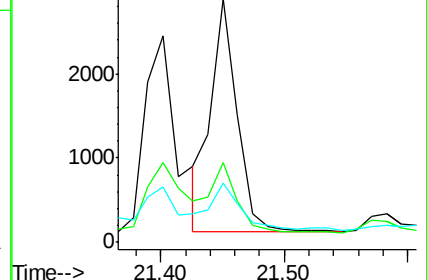
229 24.3 15.8 23.6#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.197 ng

RT: 21.32 min Scan# 1625

Delta R.T. -0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

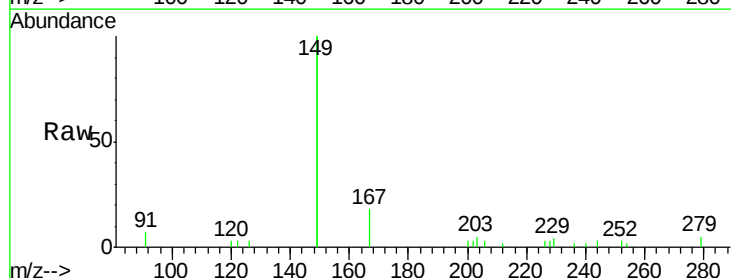
Tgt Ion:149 Resp: 10141

Ion Ratio Lower Upper

149 100

167 8.3 6.2 9.4

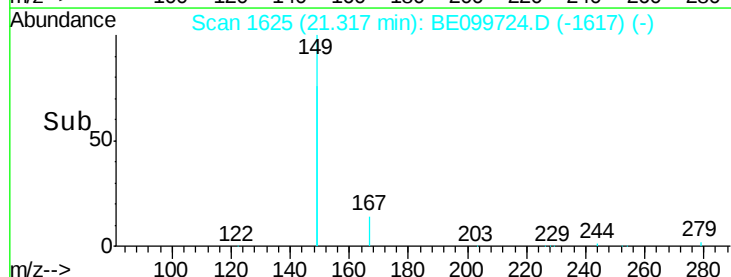
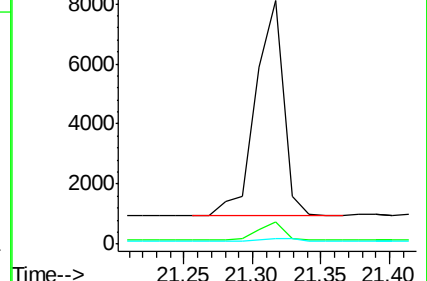
279 1.6 1.2 1.8

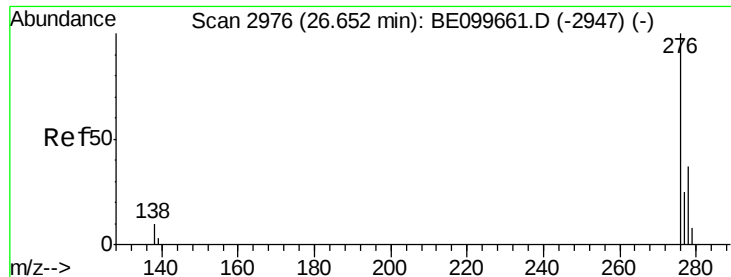


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.067 ng

RT: 26.64 min Scan# 2973

Delta R.T. -0.01 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

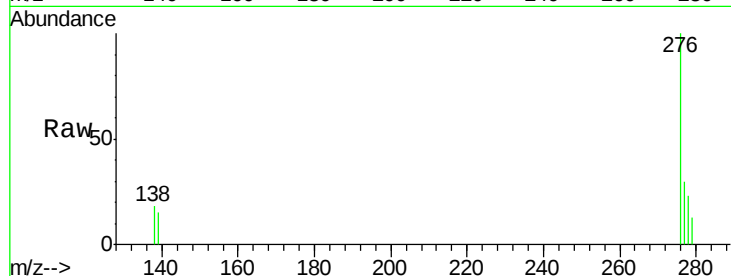
Tgt Ion:276 Resp: 3871

Ion Ratio Lower Upper

276 100

138 12.1 9.6 14.4

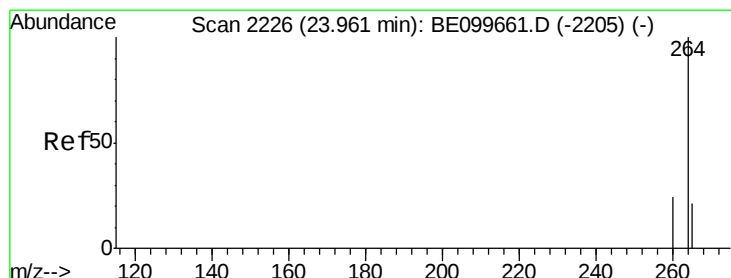
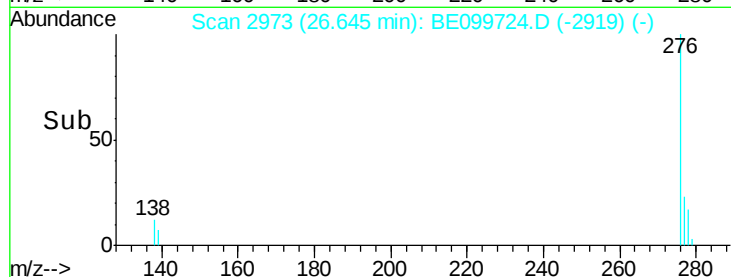
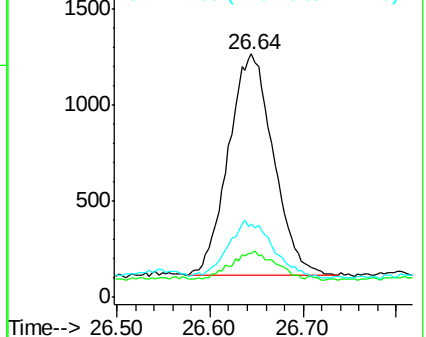
277 26.3 19.2 28.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.95 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

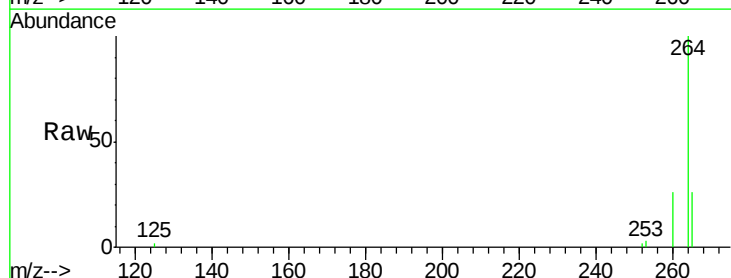
Tgt Ion:264 Resp: 19161

Ion Ratio Lower Upper

264 100

260 25.8 19.6 29.4

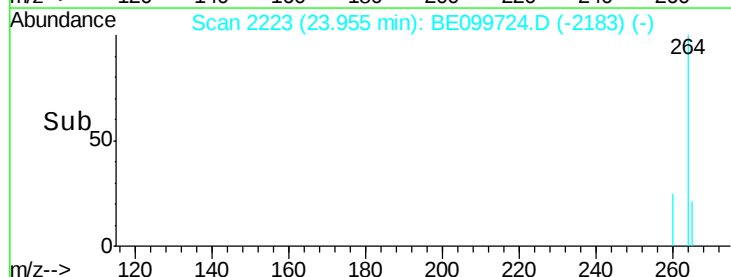
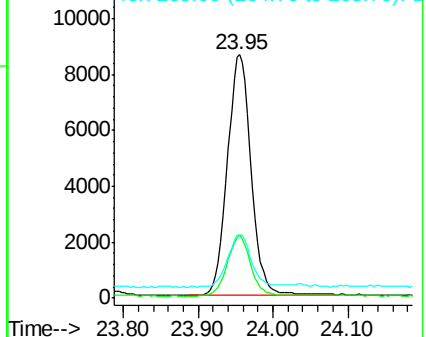
265 25.9 19.1 28.7

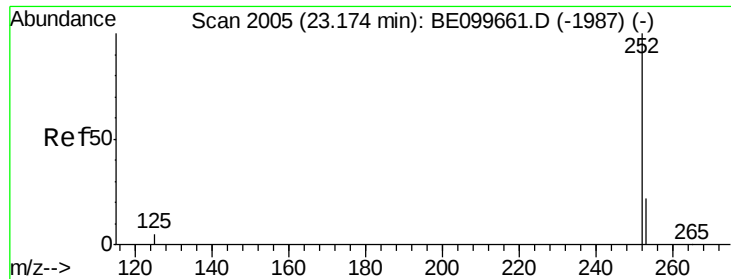


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.138 ng

RT: 23.17 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

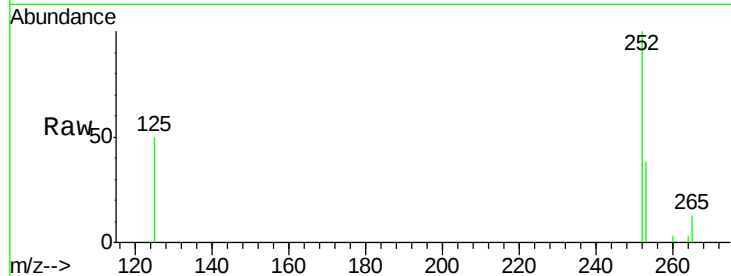
Tgt Ion:252 Resp: 7224

Ion Ratio Lower Upper

252 100

253 37.5 18.2 27.4#

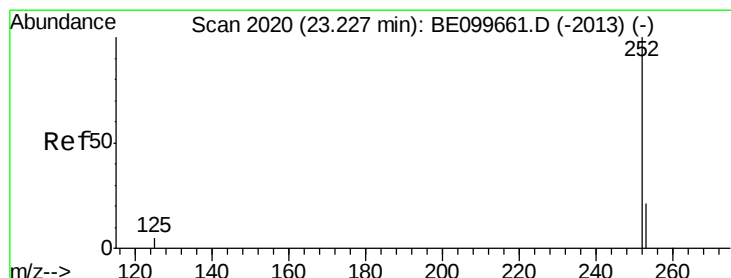
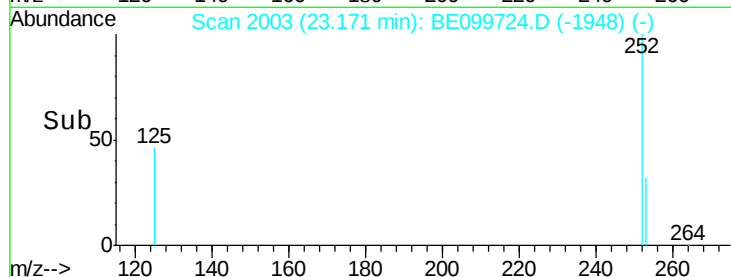
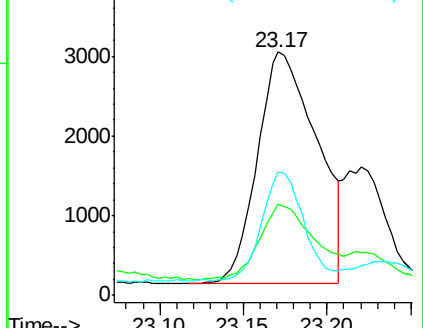
125 50.4 4.5 6.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.132 ng

RT: 23.17 min Scan# 2003

Delta R.T. -0.06 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

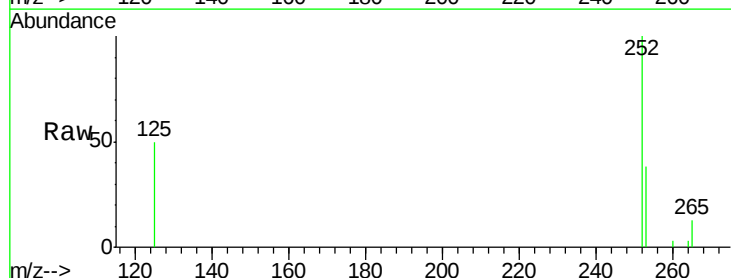
Tgt Ion:252 Resp: 7224

Ion Ratio Lower Upper

252 100

253 37.5 17.8 26.8#

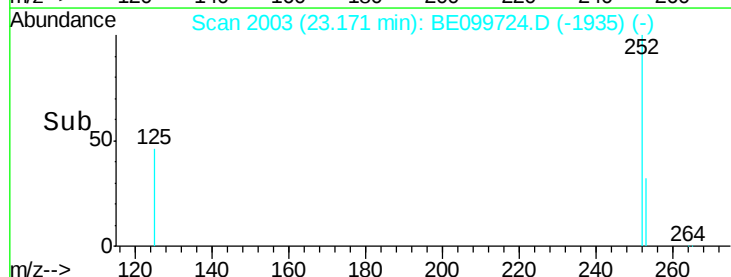
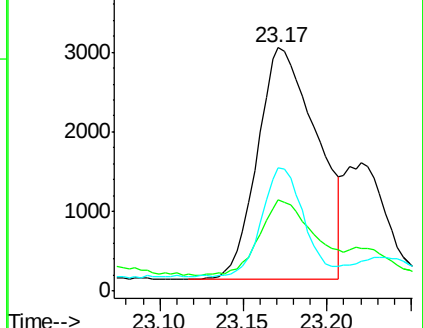
125 50.4 4.6 6.8#

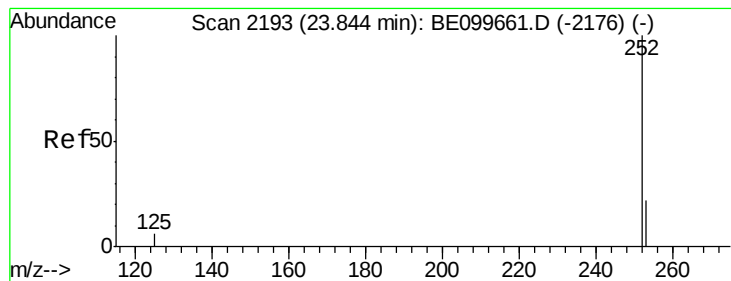


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.095 ng

RT: 23.84 min Scan# 2191

Delta R.T. -0.00 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

Instrument :

BNA_E

ClientSampleId :

FESB-15(1.2-1.7)

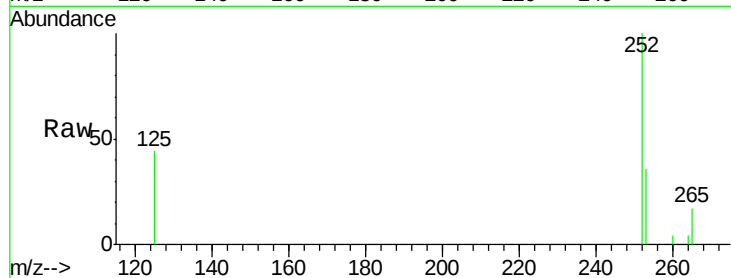
Tgt Ion:252 Resp: 4804

Ion Ratio Lower Upper

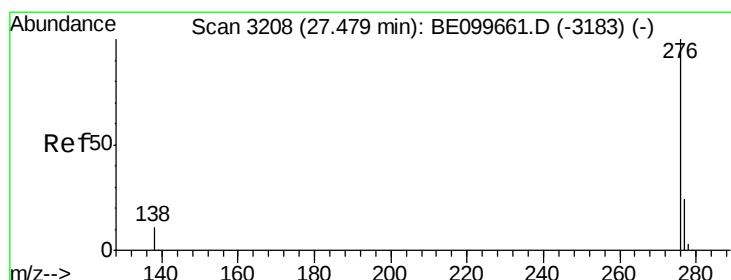
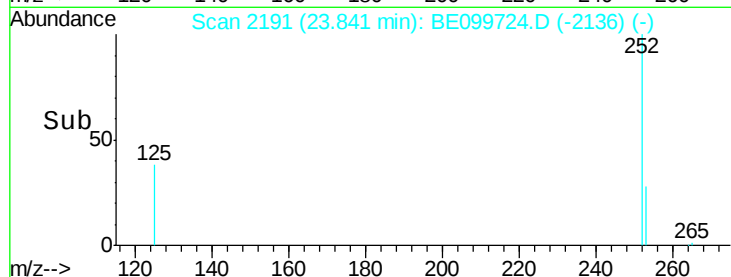
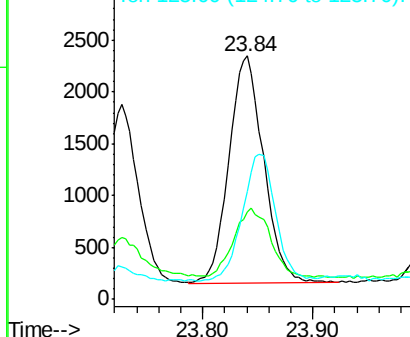
252 100

253 35.9 18.9 28.3#

125 44.5 5.4 8.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#39

Benzo(g,h,i)perylene

Concen: 0.072 ng

RT: 27.47 min Scan# 3205

Delta R.T. -0.01 min

Lab File: BE099724.D

Acq: 22 May 2019 17:33

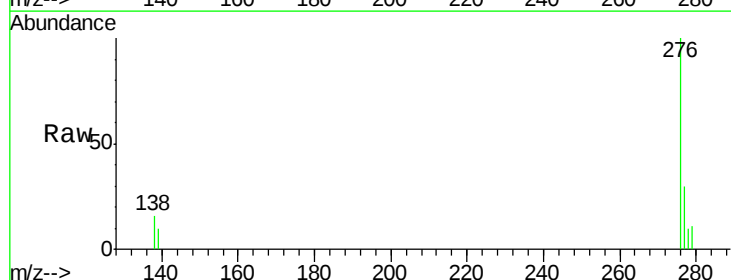
Tgt Ion:276 Resp: 3834

Ion Ratio Lower Upper

276 100

277 29.9 19.8 29.6#

138 15.5 9.2 13.8#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

